

STEREO POWER AMPLIFIER

KM-105  
KM-205



INSTRUCTION MANUAL

KENWOOD

TRIO-KENWOOD CORPORATION

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87/6 5 4 3 2 1 86/12 11 10 9 8 7 6 5 4 3

Rear panel safety precautions

|   |  |
|---|--|
| <div>CAUTION</div> <div>RISK OF ELECTRIC SHOCK</div> <div>DO NOT OPEN</div>         | CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.  |
|  | The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons. |
|  | The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.   |

## Before applying power

### For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model \_\_\_\_\_ Serial number \_\_\_\_\_

### Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

### Important!

#### U.S.A. and Canada

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only. These units are not equipped with an AC voltage selector switch and the discussion of such a switch that follows should be disregarded.

#### All other countries

Units shipped to countries other than the U.S.A., Canada and Australia are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

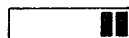
### AC voltage selection

This unit operates on 110 - 120 volts or 220 - 240 volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

#### Note:

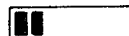
Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

AC 220-240 V~◀▶ AC 110-120 V~



This shows switch lever locked in the AC 110-120 V~ position.

AC 220-240 V~◀▶ AC 110-120 V~



This shows switch lever locked in the AC 220-240 V~ position.

Move switch lever to match your line voltage.

### AC voltage selector switch

#### Safety precaution for AC plug (For U.S.A. and Canada)

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

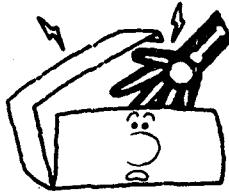
### WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

# Before operation

## Safety precautions

Never remove the case. If the internal parts are touched accidentally, a serious electric shock might occur.

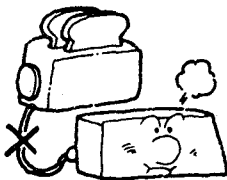


Never touch internal parts.

If metal object, such as a hair pin or a needle, comes in-to contact with the power socket on the rear panel, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.

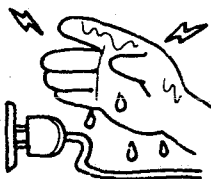


Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster.



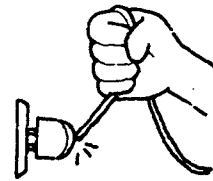
Never connect other electrical appliances.

Touching the power plug when your hands are wet may result in a serious electric shock.



Never touch with wet hands.

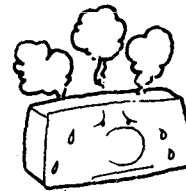
Never pull, bend or extend the power cord. This could damage the power cord, resulting in a broken cord or short-circuit.



Never pull or stretch the cord.

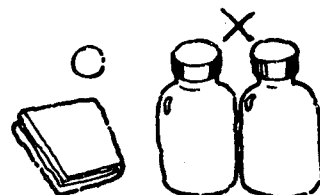
## In case of abnormal smell

If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest Kenwood Service Station.



## Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, benzene, etc. to clean the cabinet. Use a silicone cloth or a clean dry cloth.

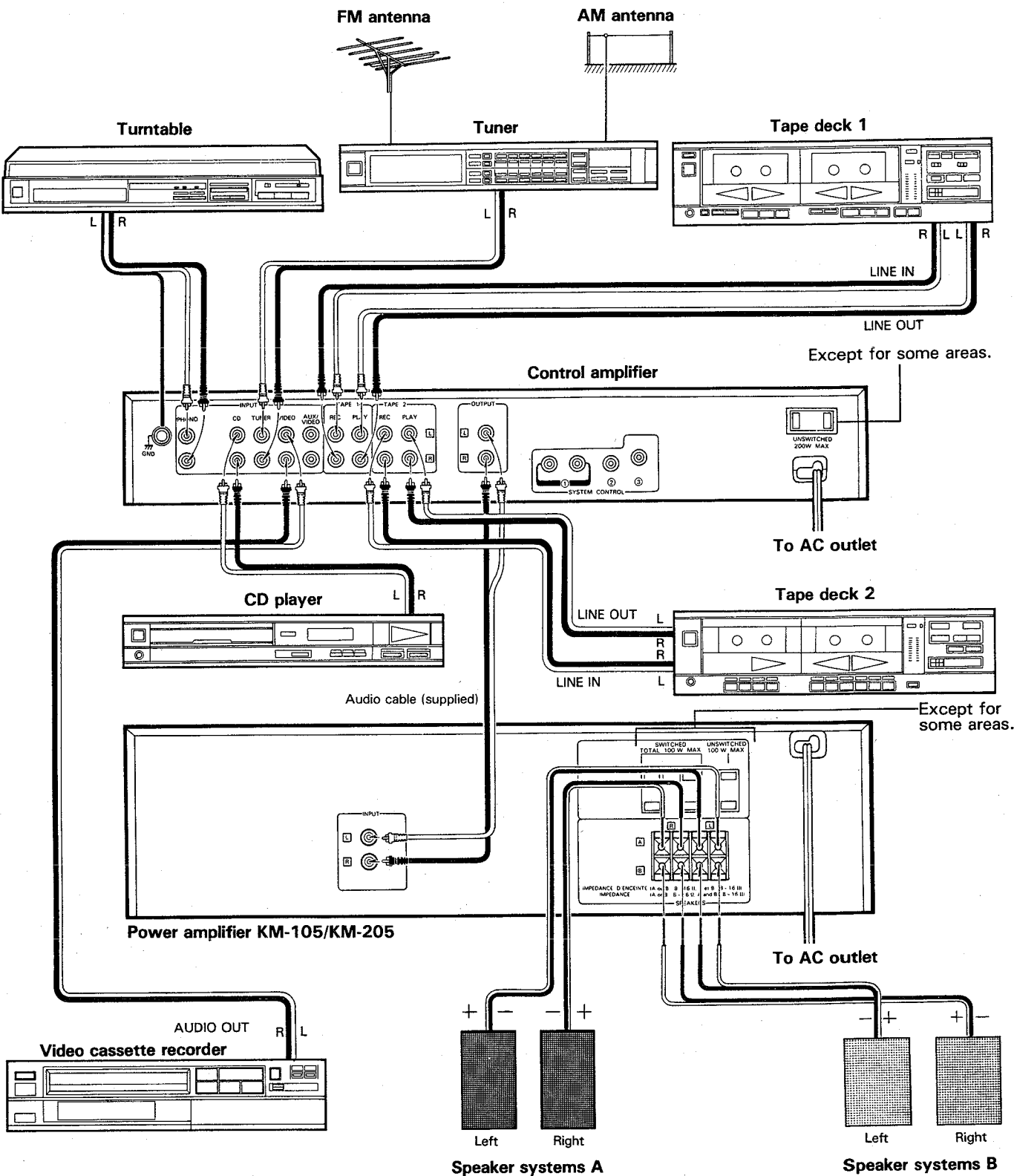


Silicone cloth Thinner Benzene

## Installation precautions

- Avoid locations subject to direct sunlight.
- Avoid high or low temperature extremes.
- Keep the unit away from heat radiating sources.
- Choose a location that is relatively free of vibration or excessive dust.
- Make sure power is off before making any system connections.

# System connections



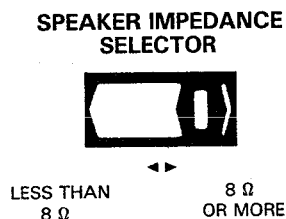
## Speakers

This amplifier has two pairs of speaker terminals, SPEAKERS A and SPEAKERS B.

### Setting SPEAKER IMPEDANCE SELECTOR (Except U.S.A. and Canada)

According to the impedance of the speakers used, set the SPEAKER IMPEDANCE SELECTOR at rear as follows.

4  $\Omega$ , 6  $\Omega$       "LESS THAN 8  $\Omega$ "  
8  $\Omega$ , 16  $\Omega$       "8  $\Omega$  OR MORE"



#### Notes:

1. During speaker system connection and operation of SPEAKER IMPEDANCE SELECTOR, set the POWER switch to OFF.
2. Check that the connected lead wires of the speaker systems do not contact with other jacks or terminals.

## WARNING!

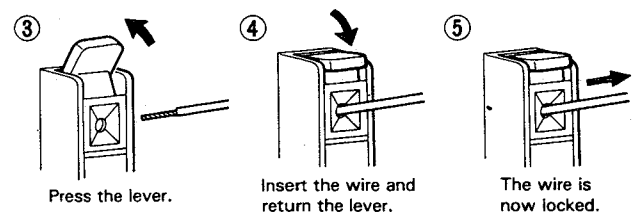
Particular attention must be given to making good electrical contact at the amplifier-output and speaker terminals. Poor or loose connections can cause sparking or burning at the terminals because of the very high power that the amplifier can deliver. Follow these steps carefully.

### Connecting speaker cords

1. Strip the insulation from the cord as shown below.



2. Depress the terminal knob upward or downward as shown below and fully insert the cord into the slot. Then, return the knob to lock the cord.



#### Speaker lead connection

3. After connection, pull the speaker cord lightly to check that the connection is secure.

## INPUT jacks

Connect these jacks and the OUTPUT jacks of a control amplifier with audio cables equipped with pin plugs on each end.

#### Note:

To prevent possible trouble, always disconnect the power plug or turn off the POWER switch before connecting or disconnecting the audio cables.

## AC outlets (Except for some areas)

The AC outlets on the rear panel may be used to supply power to other components in the system, such as turntables, tape decks, etc. Never connect equipment whose power consumption exceeds the maximum value shown at each outlet.

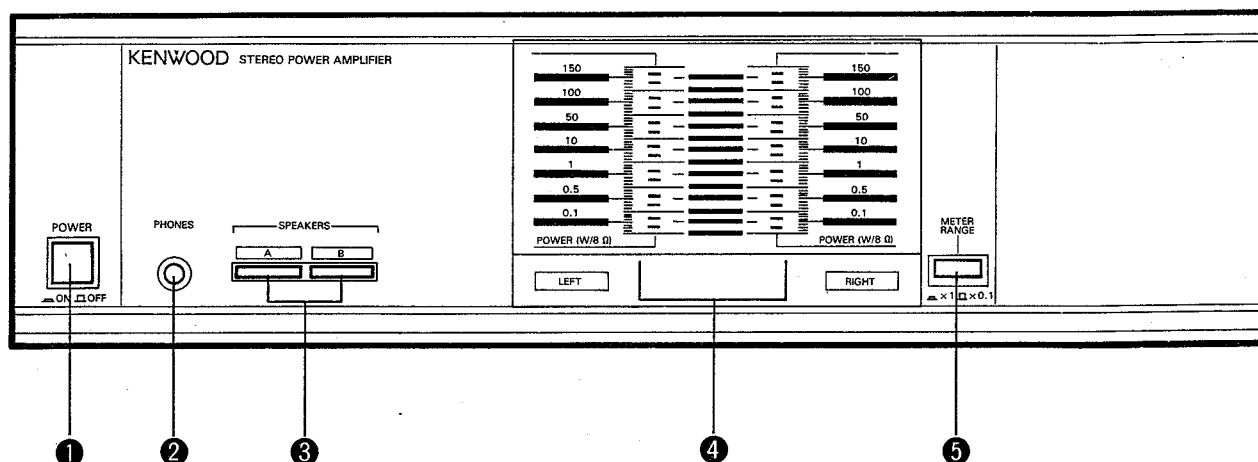
**SWITCHED outlets:** These outlets supply power only when the unit is turned on. The maximum total capacity (both outlets) is 100 watts.

**UNSWITCHED outlet:** The outlet provides power when the unit is plugged into an active AC wall outlet, regardless of the setting of the POWER switch. The maximum capacity is 100 watts.

#### Note:

Be sure to connect the speaker cords before connecting the AC OUTLET.

# Controls, indicators and connectors



## ① POWER switch

Press the power switch to turn on the power. To turn the power off, press the switch again to set it to the out position.

## ② PHONES jack

This jack accepts the standard stereo headphone plug. When you wish to listen through headphones alone, set the SPEAKERS switches (A and B) both at the OFF ( ) position.

## ③ SPEAKERS A/B switches

**SPEAKERS A** — Depressing this switch to the ON ( ) position will connect the output circuits of the amplifier to the speaker systems connected to the SPEAKERS A terminals on the rear of the unit.

**SPEAKERS B** — Depressing this switch to the ON ( ) position will connect the output circuits of the amplifier to the speaker systems connected to the SPEAKERS B terminals on the rear of the unit.

To activate the speakers systems connected to the SPEAKERS A and B terminals, depress both the SPEAKERS A and B switches to the ON ( ) position.

## ④ POWER indicator

Indicate the right and left output power in watts.

## ⑤ METER RANGE switch

When this switch is set to ( ) X0.1 position, the POWER indicator reading becomes a tenfold conversion. When this switch is set to ( ) X1 position, the POWER indicator reading becomes normal scale.

## In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

| AM, FM, PHONO or Tape playback          | Cause   | Remedy  |
|---|---|---|
| Power on but no sound.                  | 1. Power cord not plugged in.<br>2. Poor connection at wall outlet. Power outlet inactive.<br>3. Volume control set fully counterclockwise. | 1. Check plug contact.<br>2. Check outlet using a lamp or other appliance (outlet may be controlled by a wall switch).<br>3. Check the control amplifier connected.         |
| No sound from left or right.            | 1. Speaker cords disconnected.<br>2. Speakers switched off.<br>3. No input selector switch is in use.                                       | 1. Check speaker connections.<br>2. Check speaker switch.<br>3. Check the control amplifier connected.  |
| Sound from left or right, but not both. | 1. Poor speaker connections.<br>2. Defective speaker.<br>3. BALANCE set to one extreme or the other.  | 1. Check connections at both ends of speaker cord.<br>2. Reverse speakers, if problem stays with speaker have speaker checked.<br>3. Check the control amplifier connected. |
| Indicator on but no sound.              | 1. Speaker cords short circuited.<br>2. Output cords short circuited.   | Eliminate the cause and turn the POWER switch OFF and ON.   |

# Specifications

## IHF'66

### KM-105

#### Rated Power Output

125 watts per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion.

Both channels driven (Except U.S.A. and Canada)

(8 ohms, 1 kHz).....135 W + 135 W

Music Power Output (8 ohms)

(Except USA and Canada) .....250 W + 250 W

Total Harmonic Distortion

20 Hz to 20,000 Hz.....0.03% at rated power into

8 ohms

0.015% at 1/2 rated power in-

to 8 ohms

1 kHz.....0.002% at 1/2 rated power in-

to 8 ohms

Intermodulation Distortion

(60 Hz:7 kHz = 4:1).....0.002% at rated power into

8 ohms

Frequency Response .....5 Hz to 200 kHz, +0, -3 dB

Power Bandwidth

(0.2 % THD, 8 ohms) .....10 Hz to 50 kHz

Signal-to-Noise Ratio.....120 dB (MAIN IN) (IHF'66)

Damping Factor .....35 at 50 Hz

#### General

Power Consumption .....4 A (USA and Canada)

240 W (Others)

AC Outlets.....Switched 2, Unswitched 1

(Except some area)

Dimensions .....W 420 mm (16-9/16")

H 123 mm (4-13/16")

D 268.5 mm (10-9/16")

Weight.....7.9 kg (17.4 lb)

#### Note:

We follow a policy of continuous advancements in developments. For this reason specifications may be changed without notice.

### KM-205

#### Rated Power Output

150 watts per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion.

Both channels driven (Except U.S.A. and Canada)

(8 ohms, 1 kHz).....155 W + 155 W

Music Power Output (8 ohms)

(Except USA and Canada) .....310 W + 310 W

Total Harmonic Distortion

20 Hz to 20,000 Hz.....0.03% at rated power into

8 ohms

0.015% at 1/2 rated power in-

to 8 ohms

1 kHz.....0.002% at 1/2 rated power in-

to 8 ohms

Intermodulation Distortion

(60 Hz:7 kHz = 4:1).....0.002% at rated power into

8 ohms

Frequency Response .....5 Hz to 200 kHz, +0, -3 dB

Power Bandwidth

(0.2 % THD, 8 ohms) .....10 Hz to 50 kHz

Signal-to-Noise Ratio.....120 dB (MAIN IN) (IHF'66)

Damping Factor .....35 at 50 Hz

#### General

Power Consumption .....5 A (USA and Canada)

350 W (Others)

AC Outlets.....Switched 2, Unswitched 1

(Except some area)

Dimensions .....W 420 mm (16-9/16")

H 123 mm (4-13/16")

D 268.5 mm (10-9/16")

Weight.....8.5 kg (18.7 lb)

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